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DEVELOPMENT AND MANAGEMENT
DEPARTMENT OF SEAFDEC

KUALA TERENGGANU, MALAYSIA



SEAFDEC MFRDMD/ST/7

THE TUNA FISHERIES STATISTICS FOR THE SOUTH CHINA SEA AREA

1998

MARINE FISHERY RESOURCES
DEVELOPMENT AND MANAGEMENT DEPARTMENT
SOUTHEAST ASIAN FISHERIES DEVELOPMENT CENTER

2002



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Southeast Asian Fisheries Development Center**

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FOREWORD

This Tuna Fishery Statistics for the South China Sea area (1998) is the third in a series of publication beginning in 1996 undertaken by the SEAFDEC Marine Fishery Resources Development and Management Department (MFRDMD) following the transfer of responsibility for this organization to collate and publish the tuna statistical data for the Southeast Asian region. Former publications have been distributed to all interested parties, which include the SEAFDEC Member Countries, Research Institutions and International Organizations, as references and supporting documents toward a more responsible tuna resource management for food security.

The success of this publication depends essentially on the closely working cooperation that has existed between the different national liaison officers of the SEAFDEC Member Countries and MFRDMD. Such cooperation still has room for improvement as recommended during the ASEAN-SEAFDEC Conference, which held in Bangkok in November 2001. The complete and timely data submission to MFRDMD is very much appreciated to ensure the publication of the essential information on tuna in this region follows as scheduled.

Information provided in this publication comes mostly from the returned questionnaires previously submitted to all responsible national liaison officers of the SEAFDEC Member Countries, while a few have been extracted from the FAO Yearbook Fishery Statistics and SEAFDEC Fishery Statistical Bulletin For The South China Sea Area. In this connection, we wish to express our heartfelt appreciation to the Departments of Fisheries of Brunei Darussalam, Japan, Malaysia, Philippines and Thailand for providing the valuable information that enable us to compile and produce this bulletin.



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EXPLANATORY NOTES

1. General Notes

1-1 Data Collection

The data compiled in this Bulletin are, in principle, based upon the returns from the authority concerned in each country to questionnaires prepared by the Marine Fishery Resources Development and Management Department, Southeast Asian Fisheries Development Center (SEAFDEC/MFRDMD). In a number of cases, relevant data have also been extracted from the FAO Yearbook Fishery Statistics and SEAFDEC Fishery Statistical Bulletin For The South China Sea Area. The area of coverage for this bulletin is mainly the Southeast Asia part of the South China Sea within the FAO Statistical Area 71.

1-2 Time Reference

Data in this Bulletin refer to the year 1998.

2. Notes on Statistics

2-1 Category of Statistics

- 1) Annual Landing Statistics --- Annual landing data by fishing gear and boat size category are described (whole country and sub-areas).
 - (a) Monthly Landing Statistics --- Monthly landing data by fishing gear and boat size category are described (whole country and sub-areas).

2-2 Classification and Coverage of Fishing Gears

Landing data of six types of fishing gear {(1)-(6)} as shown in the following table are compiled in this issue. A specific number is given for each type of fishing gears reported.

Major Group	Particular Name
1. Trawl	(1) Otter board trawl
2. Purse Seine	(2) One boat purse seine (3) Two boat purse seine (4) Fish purse seine (5) Ring net
3. Gill Net	(6) Drift gill net
4. Hand line	(7) Hook and line
5. Trap	
6. Others	(8) Beach seine (9) Torch light net

2-3 Classification of Fishing Boats

In Malaysia, fishing boats are classified into classes by their tonnage (GRT class), which comprise five categories i.e., (1) less than 10 tons, (2) from 10 to 25 tons, (3) from 25 to 40 tons, (4) from 40 to 70 tons, and (5) over 70 tons.

2-4 Coverage of Fishing Efforts

The units of fishing effort are classified for each class boat size.

- 1) Number of fishing units
- 2) Number of trips
- 3) Number of days
- 4) Number of hauls
- 5) Number of hours (for trawling - operating hours are from start shooting until start hauling of the net, and excluding searching hours for fish schools in purse seining)
- 6) Number of hooks (Longline only)

2-5 Others

Countries and sub-areas for the statistics, classification and code number of species, and list of marine species with codes of SEAFDEC and ISSCAAP (FAO) are shown in ANNEX.

DATA AVAILABILITY

1. Annual Landing Statistics 1998

Catch and Fishing Effort by Type of Fishing Gear

Fish Purse Seine	:	<i>Malaysia and Thailand</i>
Trawl Net	:	<i>Malaysia</i>
Other Seine	:	<i>Malaysia and Taiwan</i>
Drift Gill Net	:	<i>Malaysia, Taiwan and Thailand</i>
Hook and Line	:	<i>Malaysia, Taiwan and Thailand</i>
Otter Board Trawl	:	<i>Taiwan and Thailand</i>
One Boat Purse Seine	:	<i>Taiwan</i>
Two Boat Purse Seine	:	<i>Taiwan</i>
Torch Light Net	:	<i>Taiwan</i>
Beach Seine	:	<i>Taiwan</i>
Trap	:	<i>Taiwan</i>
Anchovy Purse Seine	:	<i>Thailand</i>
Bamboo Stake Trap	:	<i>Thailand</i>
Other Gill Net	:	<i>Thailand</i>
Long Line	:	<i>Thailand</i>
Pair Trawl	:	<i>Thailand</i>

Catch and Fishing Effort by Type of Fishing Gear and Size of Management

Fish Purse Seine	:	<i>Malaysia</i>
Trawl Net	:	<i>Malaysia</i>
Drift Gill Net	:	<i>Malaysia</i>
Hook and Line	:	<i>Malaysia</i>

2. Monthly Landing Statistics 1998

Monthly Landings by Countries and Sub Areas

(1) Brunei

(2) Malaysia:

Peninsular Malaysia

West coast of Peninsular

East coast of Peninsular

Sabah

Sarawak

Labuan

ANNEX

1. Countries and Sub-areas for the Statistics

Countries and sub-areas used in landing statistics are as follows:

- 1) Brunei
- 2) Japan
- 3) Korea
- 4) Malaysia
 - 4-1 West coast of Peninsular Malaysia
 - 4-2 East coast of Peninsular Malaysia
 - 4-3 Sabah
 - 4-4 Sarawak
 - 4-5 Labuan
- 5) Philippines
- 6) Singapore
- 7) Taiwan
- 8) Thailand

2. Classification and Code Number of Species

1. *Catch by Species*

The catch should be categorized by species (group). The standard statistical classification of marine species was amended based on proposal made during the Seventh Regional Workshop on Fishery Statistics (1989) which was revised by taking account the comments from Member Countries.

2. *Species Code Number*

The species code number previously assigned by SEAFDEC Bulletin was changed from a "three-digit number" to "four-digit number". The four-digit number will be added to the list to allow for further sub-division of the species groups when required.

3. *Definition of Species Code Number*

The first two digits show the group number taken from ISSCAAP (FAO Yearbook). This group number should not be changed, even if the ISSCAAP grouping has changed. The last two digits show the particular species within a group, starting from 01.

4. *Names of Family*

In all cases the family names of fish species have been taken from a single reference (Greenwood, P. H., D. E. Rosen, S. H. Weitzman and G. S. Myers. 1966. Phyletic studies of teleostean fishes, with a provisional classification of living forms. Bull. Amer. Mus. Nat. Hist., 131 (4): 339-456) to allow clear selection, without taxonomical confusion, of teleostean fishes.

5. English and Scientific Name

As the English names for species vary quite considerably, the species codes have been based on the scientific name of the species.

3. List of Tuna and Tuna-like Species with Species Codes of SEAFDEC and ISSCAAP (FAO)

ISSCAAP			SEAFDEC		
Div.	Group	Code	Name	Code No.	Family/Scientific name
3.	36. Tunas	SKJ	1. Skipjack tuna	3601	Scombridae - <i>Katsuwonus pelamis</i>
		YFT	2. Yellowfin tuna	3602	Scombridae - <i>Thunnus albacares</i>
		BET	3. Big-eye tuna	3603	Scombridae - <i>Thunnus obesus</i>
		LOT	4. Longtail tuna	3604	Scombridae - <i>Thunnus tonggol</i>
		ALB	5. Albacore	3605	Scombridae - <i>Thunnus alalunga</i>
		KAW	6. Eastern little tuna	3606	Scombridae - <i>Euthynnus affinis</i>
		FRZ	7. Frigate tuna and bullet tuna	3607	Scombridae - <i>Auxis</i> spp
		BIL	8. Indo-Pacific swordfish, sailfishes and	3608	Istiophoridae - <i>Istiophorus</i> spp. <i>Makaira</i> spp.
		XIP	marlins		Xiphiidae - <i>Xiphias</i> spp.
		COM	9. Narrow-barred king mackerel	3609	Scombridae - <i>Scomberomorus commerson</i>
		GUT	10. King mackerels	3610	Scombridae - <i>Scomberomorus guttatus</i>
		STS	11. Streaked seerfish	3611	Scombridae - <i>Scomberomorus lineolatus</i>
		FRI	12. Frigate tuna	3612	Scombridae - <i>Auxis thazard</i>
		BLT	13. Bullet tuna	3613	Scombridae - <i>Auxis rochei</i>
		SBF	14. Southern bluefin tuna	3614	Scombridae - <i>Thunnus maccoyii</i>
		BIP	15. Indo-pacific bonito	3615	Scombridae - <i>Sarda orientalis</i>
		TUN	16. Tunas and bonita NEI	3616	Scombridae - <i>Thunini and sardini NEI</i>
		WAH	17. Wahoo	3617	Scombridae - <i>Acanthocybium solandri</i>
		KGX	18. Seerfishes NEI	3618	Scombridae - <i>Scomberini NEI</i>
		SWO	19. Swordfish	3619	Xiphiidae - <i>Xiphias gladius</i>
		SFA	20. Indo-pacific sailfish	3620	Istiophoridae - <i>Istiophorus platypterus</i>
		BLM	21. Black marlin	3621	Istiophoridae - <i>Makaira indica</i>
		BLZ	22. Indo-pacific blue marlin	3622	Istiophoridae - <i>Makaira mazara</i>
		MLS	23. Striped marlin	3623	<i>Tetropturus audax</i>
		OTH	24. Other NEI	3624	Scombridae and xiphioides

STATISTICAL TABLES FOR 1998

1. ANNUAL LANDING BY SPECIES

1-1 Catch and Fishing Effort by Type of Fishing Gear

1-1-1 Fish Purse Seine

(1) Malaysia

1-1-2 Trawl Net

(1) Malaysia

1-1-3 Other Seine

(1) Malaysia

1-1-4 Drift Gill Net

(1) Malaysia

1-1-5 Hook and Line

(1) Malaysia

1 ANNUAL LANDING BY SPECIES - 1998

1-1 Catch and Fishing Effort by Type of Fishing Gear

1-1-1 Fish Purse Seine

(1) Malaysia

Catch Unit in Tonnes

Unit of fishing effort	Sub-area		Total	West Coast of Peninsular	East Coast of Peninsular	Sabah	Sarawak	Labuan
No. of fishing units			5,251	2,096	3,155	-	-	-
No. of trips			49,471	26,386	23,085	-	-	-
No. of days			79,766	32,201	47,565	-	-	-
No. of hauls			274,984	53,471	221,513	-	-	-
TOTAL CATCH			39,063	7,965	17,103	6,273	194	7,528
	Species (group)	CODES	Code No.	West Coast P	East Coast P	Sabah	Sarawak	Labuan
	Skipjack tuna	SKJ	3601					
	Yellowfin tuna	YFT	3602					
	Big-eye tuna	BET	3603					
	Longtail tuna	LOT	3604	7,150	3,154	1,132	35	1,399
	Albacore tuna	ALB	3605					
	Eastern little tuna	KAW	3606	31,216	13,763	4,943	158	6,105
	Frigate and bullet tuna	FRZ	3607					
	Indo-Pacific swordfish, sailfish and marlin	BIL	3608					
	Narrow-barred king mackerel	COM	3609					
	King mackerel	GUT	3610					
	Straked seerfish	STS	3611					
	Frigate tuna	FRI	3612	78	34	13	1	15
	Bullet tuna	BLT	3613					
	Southern bluefin tuna	SBF	3614					
	Indo-Pacific bonito	BIP	3615					
	Tunas and bonito NEI	TUN	3616					
	Wahoo	WAH	3617					
	Seerfish NEI	KGX	3618	619	148	185		9
	Swordfish	SWO	3619					
	Indo-Pacific sailfish	SFA	3620					
	Black marlin	BLM	3621					
	Indo-Pacific blue marlin	BLZ	3622					
	Striped marlin	MLS	3623					
	Other NEI	OTH	3624					

1 ANNUAL LANDING BY SPECIES - 1998

1-1 Catch and Fishing Effort by Type of Fishing Gear

1-1-2 Trawl Net

(1) Malaysia

Catch Unit in Tonnes

Unit of fishing effort	Sub-area		Total	West Coast of Peninsular of Peninsular	East Coast of Peninsular	Sabah	Sarawak	Labuan
No. of fishing units				43393	13907	-	-	-
No. of trips				627096	118418	-	-	-
No. of days				774870	229917	-	-	-
No. of hauls				2204491	1183647	-	-	-
TOTAL CATCH			4,989	2,314	998	574	1,034	69
Species (group)	.CODES	Code No.	TOTAL	West Coast P	East Coast P	Sabah	Sarawak	Labuan
Skipjack tuna	SKJ	3601						
Yellowfin tuna	YFT	3602						
Big-eye tuna	BET	3603						
Longtail tuna	LOT	3604	17	11	4		1	1
Albacore tuna	ALB	3605						
Eastern little tuna	KAW	3606	76	51	17		5	3
Frigate and bullet tuna	FRZ	3607						
Indo-Pacific swordfish, sailfish and marlin	BIL	3608	1					1
Narrow-barred king mackerel	COM	3609						
King mackerel	GUT	3610						
Streked seerfish	STS	3611						
Frigate tuna	FRI	3612	2	1	1			
Bullet tuna	BLT	3613						
Southern bluefin tuna	SBF	3614						
Indo-Pacific bonito	BIP	3615						
Tunas and bonito NEI	TUN	3616						
Wahoo	WAH	3617						
Seerfish NEI	KGX	3618		2251	976	574	1028	64
Swordfish	SWO	3619						
Indo-Pacific sailfish	SFA	3620						
Black marlin	BLM	3621						
Indo-Pacific blue marlin	BLZ	3622						
Striped marlin	MLS	3623						
Other NEI	OTH	3624	4893					

1 ANNUAL LANDING BY SPECIES - 1998
1-1 Catch and Fishing Effort by Type of Fishing Gear
1-1-3 Other Seine
(1) Malaysia

7

1 ANNUAL LANDING BY SPECIES - 1998

1-1 Catch and Fishing Effort by Type of Fishing Gear

1-1-4 Drift Gill Net

(1) Malaysia

Catch Unit in Tonnes

Unit of fishing effort	Sub-area		Total	West Coast of Peninsular	East Coast of Peninsular	Sabah	Sarawak	Labuan
No. of fishing units			144,552	129,454	15,098	-	-	-
No. of trips			2,065,348	1,847,550	217,798	-	-	-
No. of days			2,083,686	1,866,428	217,258	-	-	-
No. of hauls			4,483,075	3,843,432	639,643	-	-	-
TOTAL CATCH			11,974	4,456	868	4,523	2,113	14
Species (group)	CODES	Code No.	TOTAL	West Coast P	East Coast P	Sabah	Sarawak	Labuan
Skipjack tuna	SKJ	3601	867	305	63	299	199	1
Yellowfin tuna	YFT	3602						
Big-eye tuna	BET	3603						
Longtail tuna	LOT	3604						
Albacore tuna	ALB	3605						
Eastern little tuna	KAW	3606	3,790	1,332	275	1,307	871	5
Frigate and bullet tuna	FRZ	3607						
Indo-Pacific swordfish, sailfish and marlin	BIL	3608	245			245		
Narrow-barred king mackerel	COM	3609						
King mackerel	GUT	3610	10	3	1	3	3	
Straked seerfish	STS	3611						
Frigate tuna	FRI	3612						
Bullet tuna	BLT	3613						
Southern bluefin tuna	SBF	3614						
Indo-Pacific bonito	BIP	3615	7,062	2,816	529	2,669	1,040	8
Tunas and bonito NEI	TUN	3616						
Wahoo	WAH	3617						
Seerfish NEI	KGX	3618						
Swordfish	SWO	3619						
Indo-Pacific sailfish	SFA	3620						
Black marlin	BLM	3621						
Indo-Pacific blue marlin	BLZ	3622						
Striped marlin	MLS	3623						
Other NEI	OTH	3624						

1 ANNUAL LANDING BY SPECIES - 1998

1-1 Catch and Fishing Effort by Type of Fishing Gear

1-1-5 Hook and Line

(1) Malaysia

Catch Unit in Tonnes

Unit of fishing effort	Sub-area			Total	West Coast of Peninsular	East Coast of Peninsular	Sabah	Sarawak	Labuan
No. of fishing units				23,730	10,603	13,127	-	-	-
No. of trips				258,052	111,548	146,504	-	-	-
No. of days				310,481	113,230	197,251	-	-	-
No. of hauls				769,778	769,197	581	-	-	-
TOTAL CATCH									
	Species (group)	CODES	Code No.	TOTAL	West Coast P	East Coast P	Sabah	Sarawak	Labuan
	Skipjack tuna	SKJ	3601						
	Yellowfin tuna	YFT	3602						
	Big-eye tuna	BET	3603						
	Longtail tuna	LOT	3604	1,589		1,235	216	138	
	Albacore tuna	ALB	3605						
	Eastern little tuna	KAW	3606	6,934		5,391	941	602	
	Frigate and bullet tuna	FRZ	3607						
	Indo-Pacific swordfish, sailfish and marlin	BIL	3608	73		15	58		
	Narrow-barred king mackerel	COM	3609						
	King mackerel	GUT	3610						
	Streked seerfish	STS	3611						
	Frigate tuna	FRI	3612	17		13	3	1	
	Bullet tuna	BLT	3613						
	Southern bluefin tuna	SBF	3614						
	Indo-Pacific bonito	BIP	3615						
	Tunas and bonito NEI	TUN	3616						
	Wahoo	WAH	3617						
	Seerfish NEI	KGX	3618	3,682	37	1,498	1,907	215	25
	Swordfish	SWO	3619						
	Indo-Pacific sailfish	SFA	3620						
	Black marlin	BLM	3621						
	Indo-Pacific blue marlin	BLZ	3622						
	Striped marlin	MLS	3623						
	Other NEI	OTH	3624						

1. ANNUAL LANDING BY SPECIES 1998

1-2 Catch and Fishing Effort by Type of Fishing Gear and Size of Management

1-2-1 Fish Purse Seine

(1) Malaysia

Less than 10 tons

10-25 tons

25-40 tons

40-70 tons

More than 70 tons

1-2-2 Trawl Net

(1) Malaysia

Less than 10 tons

10-25 tons

25-40 tons

40-70 tons

More than 70 tons

1-2-3 Drift Gill Net

(1) Malaysia

1-2-4 Hook and Line

(1) Malaysia

1-2-5 Longline

(1) Japan

1-2-6 Pole and Line

(1) Japan

1 ANNUAL LANDING BY SPECIES - 1998

1-2 Catch and Fishing Effort by Type of Fishing Gear and Size Of Management

1-2-1 Fish Purse Seine

-1 Malaysia

Size of boat: Less than 10 tons

Unit of fishing effort		Sub-area		Total	West Coast	East Coast
Cumulative no. of fishing units				60	22	38
Cumulative no. of trips				850	369	481
Cumulative no. of days				850	369	481
Cumulative no. of hauls				2,900	1,785	1,115
TOTAL CATCH				4	0	4
Species (group)		CODES	Code No.	TOTAL	West Coast P	East Coast P
Skipjack tuna		SKJ	3601			
Yellowfin tuna		YFT	3602			
Big-eye tuna		BET	3603			
Longtail tuna		LOT	3604			
Albacore tuna		ALB	3605			
Eastern little tuna		KAW	3606			
Frigate and bullet tuna		FRZ	3607			
Indo-Pacific swordfish, sailfish and marlin		BIL	3608	0	0	0
Narrow-barred king mackerel		COM	3609			
King mackerel		GUT	3610			
Straked seerfish		STS	3611			
Frigate tuna		FRI	3612			
Bullet tuna		BLT	3613			
Southern bluefin tuna		SBF	3614			
Indo-Pacific bonito		BIP	3615			
Tunas and bonito NEI		TUN	3616	4	0	4
Wahoo		WAH	3617			
Seerfish NEI		KGX	3618	0	0	0
Swordfish		SWO	3619			
Indo-Pacific sailfish		SFA	3620			
Black marlin		BLM	3621			
Indo-Pacific blue marlin		BLZ	3622			
Striped marlin		MLS	3623			
Other NEI		OTH	3624			

1 ANNUAL LANDING BY SPECIES - 1998

1-2 Catch and Fishing Effort by Type of Fishing Gear and Size Of Management

1-2-1 Fish Purse Seine

-1 Malaysia

Size Of Boat : 10-25 tons

Unit of fishing effort	Sub-area		Total	West Coast	East Coast
Cumulative no. of fishing units			781	16	765
Cumulative no. of trips			10,918	262	10,656
Cumulative no. of days			11,200	262	10,938
Cumulative no. of hauls			31,598	1,207	30,391
TOTAL CATCH			2,983	0	2,983
Species (group)	CODES	Code No.	TOTAL	West Coast P	East Coast P
Skipjack tuna	SKJ	3601			
Yellowfin tuna	YFT	3602			
Big-eye tuna	BET	3603			
Longtail tuna	LOT	3604	546	0	546
Albacore tuna	ALB	3605			
Eastern little tuna	KAW	3606	2,382	0	2,382
Frigate and bullet tuna	FRZ	3607			
Indo-Pacific swordfish, sailfish and marlin	BIL	3608	0	0	0
Narrow-barred king mackerel	COM	3609			
King mackerel	GUT	3610			
Straked seerfish	STS	3611			
Frigate tuna	FRI	3612	5	0	5
Bullet tuna	BLT	3613			
Southern bluefin tuna	SBF	3614			
Indo-Pacific bonito	BIP	3615			
Tunas and bonito NEI	TUN	3616			
Wahoo	WAH	3617			
Seerfish NEI	KGX	3618	50	0	50
Swordfish	SWO	3619			
Indo-Pacific sailfish	SFA	3620			
Black marlin	BLM	3621			
Indo-Pacific blue marlin	BLZ	3622			
Striped marlin	MLS	3623			
Other NEI	OTH	3624			

1 ANNUAL LANDING BY SPECIES - 1998

1-2 Catch and Fishing Effort by Type of Fishing Gear and Size Of Management

1-2-1 Fish Purse Seine

-1 Malaysia

Size Of Boat :25-40 tons

Unit of fishing effort	Sub-area		Total	West Coast	East Coast
Cumulative no. of fishing units			1,046	437	609
Cumulative no. of trips			12,511	5,858	6,653
Cumulative no. of days			14,872	5,858	9,014
Cumulative no. of hauls			51,809	12,123	39,686
TOTAL CATCH			4,813	219	4,594
Species (group)	CODES	Code No.	TOTAL	West Coast P	East Coast P
Skipjack tuna	SKJ	3601	548	35	514
Yellowfin tuna	YFT	3602			
Big-eye tuna	BET	3603			
Longtail tuna	LOT	3604			
Albacore tuna	ALB	3605			
Eastern little tuna	KAW	3606	2,394	150	2,244
Frigate and bullet tuna	FRZ	3607			
Indo-Pacific swordfish, sailfish and marlin	BIL	3608	0	0	0
Narrow-barred king mackerel	COM	3609	6	1	5
King mackerel	GUT	3610			
Straked seerfish	STS	3611			
Frigate tuna	FRI	3612			
Bullet tuna	BLT	3613			
Southern bluefin tuna	SBF	3614	1,865	34	1831
Indo-Pacific bonito	BIP	3615			
Tunas and bonito NEI	TUN	3616			
Wahoo	WAH	3617			
Seerfish NEI	KGX	3618			
Swordfish	SWO	3619			
Indo-Pacific sailfish	SFA	3620			
Black marlin	BLM	3621			
Indo-Pacific blue marlin	BLZ	3622			
Striped marlin	MLS	3623			
Other NEI	OTH	3624			

1 ANNUAL LANDING BY SPECIES - 1998

1-2 Catch and Fishing Effort by Type of Fishing Gear and Management

1-2-1 Fish Purse Seine

-1 Malaysia

Size Of Boat :40-70 tons

Unit of fishing effort	Sub-area	Total	West Coast	East Coast
Cumulative no. of fishing units		2,184	1,255	929
Cumulative no. of trips		24,595	16,152	8,443
Cumulative no. of days		33,351	19,636	13,715
Cumulative no. of hauls		90,062	32,854	57,208
TOTAL CATCH		10,197	5,922	4,275
Species (group)	CODES	Code No.	West Coast P	East Coast P
Skipjack tuna	SKJ	3601		
Yellowfin tuna	YFT	3602		
Big-eye tuna	BET	3603		791
Longtail tuna	LOT	3604	1,073	
Albacore tuna	ALB	3605		
Eastern little tuna	KAW	3606	4,684	3,455
Frigate and bullet tuna	FRZ	3607		
Indo-Pacific swordfish, sailfish and marlin	BIL	3608	0	0
Narrow-barred king mackerel	COM	3609		
King mackerel	GUT	3610		
Straked seerfish	STS	3611		
Frigate tuna	FRI	3612	12	8
Bullet tuna	BLT	3613		
Southern bluefin tuna	SBF	3614		
Indo-Pacific bonito	BIP	3615		
Tunas and bonito NEI	TUN	3616		
Wahoo	WAH	3617		
Seerfish NEI	KGX	3618	153	23
Swordfish	SWO	3619		
Indo-Pacific sailfish	SFA	3620		
Black marlin	BLM	3621		
Indo-Pacific blue marlin	BLZ	3622		
Striped marlin	MLS	3623		
Other NEI	OTH	3624		
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1 ANNUAL LANDING BY SPECIES - 1998

1-2 Catch and Fishing Effort by Type of Fishing Gear and Size Of Management

1-2-1 Fish Purse Seine

-1 Malaysia

Size Of Boat :More than 70 tons

Unit of fishing effort	Sub-area		Total	West Coast	East Coast
Cumulative no. of fishing units			1,180	366	814
Cumulative no. of trips			3,553	1,460	2,093
Cumulative no. of days			19,492	6,075	13,417
Cumulative no. of hauls			90,715	5,502	85,213
TOTAL CATCH			8,833	1,824	7,009
Species (group)	CODES	Code No.	TOTAL	West Coast P	East Coast P
Skipjack tuna	SKJ	3601			
Yellowfin tuna	YFT	3602			
Big-eye tuna	BET	3603			
Longtail tuna	LOT	3604	1,625	323	1,303
Albacore tuna	ALB	3605			
Eastern little tuna	KAW	3606	7,094	1,408	5,685
Frigate and bullet tuna	FRZ	3607			
Indo-Pacific swordfish, sailfish and marlin	BIL	3608	0	0	0
Narrow-barred king mackerel	COM	3609			
King mackerel	GUT	3610			
Straked seerfish	STS	3611			
Frigate tuna	FRI	3612	18	3	15
Bullet tuna	BLT	3613			
Southern bluefin tuna	SBF	3614			
Indo-Pacific bonito	BIP	3615			
Tunas and bonito NEI	TUN	3616			
Wahoo	WAH	3617			
Seerfish NEI	KGX	3618	96	90	6
Swordfish	SWO	3619			
Indo-Pacific sailfish	SFA	3620			
Black marlin	BLM	3621			
Indo-Pacific blue marlin	BLZ	3622			
Striped marlin	MLS	3623			
Other NEI	OTH	3624			

1 ANNUAL LANDING BY SPECIES - 1998

1-2 Catch and Fishing Effort by Type of Fishing Gear and Size Of Management

1-2-2 Trawl Net

-1 Malaysia

Size Of Boat : Less than 10 tons

Unit of fishing effort		Sub-area		Total	West Coast	East Coast
Cumulative no. of fishing units				9,831	7,295	2,536
Cumulative no. of trips				154,695	119,214	35,481
Cumulative no. of days				154,798	119,214	35,584
Cumulative no. of hauls				437,112	333,762	103,350
TOTAL CATCH				15	5	10
Species (group)	CODES	Code No.		TOTAL	West Coast P	East Coast P
Skipjack tuna	SKJ	3601				
Yellowfin tuna	YFT	3602				
Big-eye tuna	BET	3603				
Longtail tuna	LOT	3604				
Albacore tuna	ALB	3605				
Eastern little tuna	KAW	3606				
Frigate and bullet tuna	FRZ	3607				
Indo-Pacific swordfish, sailfish and marlin	BIL	3608		0	0	0
Narrow-barred king mackerel	COM	3609				
King mackerel	GUT	3610				
Straked seerfish	STS	3611				
Frigate tuna	FRI	3612				
Bullet tuna	BLT	3613				
Southern bluefin tuna	SBF	3614				
Indo-Pacific bonito	BIP	3615				
Tunas and bonito NEI	TUN	3616		0	0	0
Wahoo	WAH	3617				
Seerfish NEI	KGX	3618			5	10
Swordfish	SWO	3619		15		
Indo-Pacific sailfish	SFA	3620				
Black marlin	BLM	3621				
Indo-Pacific blue marlin	BLZ	3622				
Striped marlin	MLS	3623				
Other NEI	OTH	3624				

1 ANNUAL LANDING BY SPECIES - 1998

1-2 Catch and Fishing Effort by Type of Fishing Gear and Size Of Management

1-2-2 Traw Net

-1 Malaysia

Size Of Boat : 10-25 tons

Unit of fishing effort		Sub-area		Total	West Coast	East Coast
Cumulative no. of fishing units				26,589	21,694	4,895
Cumulative no. of trips				426,933	365,478	61,455
Cumulative no. of days				449,398	376,494	72,904
Cumulative no. of hauls				1,284,644	939,064	345,580
TOTAL CATCH				442	325	117
Species (group)	CODES	Code No.	TOTAL	West Coast P	East Coast P	
Skipjack tuna	SKJ	3601	0	0	0	
Yellowfin tuna	YFT	3602				
Big-eye tuna	BET	3603				
Longtail tuna	LOT	3604				
Albacore tuna	ALB	3605				
Eastern little tuna	KAW	3606				
Frigate and bullet tuna	FRZ	3607				
Indo-Pacific swordfish, sailfish and marlin	BIL	3608				
Narrow-barred king mackerel	COM	3609				
King mackerel	GUT	3610				
Straked seerfish	STS	3611	3	3	0	
Frigate tuna	FRI	3612				
Bullet tuna	BLT	3613				
Southern bluefin tuna	SBF	3614				
Indo-Pacific bonito	BIP	3615				
Tunas and bonito NEI	TUN	3616				
Wahoo	WAH	3617				
Seerfish NEI	KGX	3618				
Swordfish	SWO	3619				
Indo-Pacific sailfish	SFA	3620	439	322	117	
Black marlin	BLM	3621				
Indo-Pacific blue marlin	BLZ	3622				
Striped marlin	MLS	3623				
Other NEI	OTH	3624				

1 ANNUAL LANDING BY SPECIES - 1998

1-2 Catch and Fishing Effort by Type of Fishing Gear and Size Of Management

1-2-2 Trawl Net

Size Of Boat :25-40 tons

-1 Malaysia

Unit of fishing effort	Sub-area		Total	West Coast	East Coast
Cumulative no. of fishing units			10,558	7,849	2,709
Cumulative no. of trips			118,032	105,457	12,575
Cumulative no. of days			193,426	144,016	49,410
Cumulative no. of hauls			731,789	435,630	296,159
TOTAL CATCH			1,390	1,064	326
Species (group)	CODES	Code No.	TOTAL	West Coast P	East Coast P
Skipjack tuna	SKJ	3601	0	0	0
Yellowfin tuna	YFT	3602			
Big-eye tuna	BET	3603			
Longtail tuna	LOT	3604			
Albacore tuna	ALB	3605			
Eastern little tuna	KAW	3606			
Frigate and bullet tuna	FRZ	3607			
Indo-Pacific swordfish, sailfish and marlin	BIL	3608			
Narrow-barred king mackerel	COM	3609			
King mackerel	GUT	3610			
Straked seerfish	STS	3611	26	26	0
Frigate tuna	FRI	3612			
Bullet tuna	BLT	3613			
Southern bluefin tuna	SBF	3614			
Indo-Pacific bonito	BIP	3615			
Tunas and bonito NEI	TUN	3616			
Wahoo	WAH	3617			
Seerfish NEI	KGX	3618			
Swordfish	SWO	3619			
Indo-Pacific sailfish	SFA	3620			
Black marlin	BLM	3621	1,364	1038	326
Indo-Pacific blue marlin	BLZ	3622			
Striped marlin	MLS	3623			
Other NEI	OTH	3624			

1 ANNUAL LANDING BY SPECIES - 1998

1-2 Catch and Fishing Effort by Type of Fishing Gear and Size Of Management

1-2-2 Traw Net

-1 Malaysia Size Of Boat :40- 70 tons

Unit of fishing effort		Sub-area		Total	West Coast	East Coast
Cumulative no. of fishing units				7,983	5,580	2,403
Cumulative no. of trips				40,185	33,942	6,243
Cumulative no. of days				159,769	114,211	45,558
Cumulative no. of hauls				723,950	428,776	295,174
TOTAL CATCH				1,220	850	370
Species (group)		CODES	Code No.	TOTAL	West Coast P	East Coast P
Skipjack tuna		SKJ	3,601	0	0	0
Yellowfin tuna		YFT	3,602			
Big-eye tuna		BET	3,603			
Longtail tuna		LOT	3,604			
Albacore tuna		ALB	3,605			
Eastern little tuna		KAW	3,606			
Frigate and bullet tuna		FRZ	3,607			
Indo-Pacific swordfish, sailfish and marlin		BIL	3,608			
Narrow-barred king mackerel		COM	3,609			
King mackerel		GUT	3,610			
Straked seerfish		STS	3,611	47	31	16
Frigate tuna		FRJ	3,612			
Bullet tuna		BLT	3,613			
Southern bluefin tuna		SBF	3,614			
Indo-Pacific bonito		BIP	3,615			
Tunas and bonito NEI		TUN	3,616			
Wahoo		WAH	3,617			
Seerfish NEI		KGX	3,618			
Swordfish		SWO	3,619			
Indo-Pacific sailfish		SFA	3,620			
Black marlin		BLM	3,621	1,173	819	354
Indo-Pacific blue marlin		BLZ	3,622			
Striped marlin		MLS	3,623			
Other NEI		OTH	3,624			

1 ANNUAL LANDING BY SPECIES - 1998

1-2 Catch and Fishing Effort by Type of Fishing Gear and Size Of Management

1-2-2 Traw Net

-1 Malaysia

Size Of Boat :More than 70 tons

Unit of fishing effort		Sub-area	Total	West Coast	East Coast
Cumulative no. of fishing units			1,180	366	814
Cumulative no. of trips			3,553	1,460	2,093
Cumulative no. of days			19,492	6,075	13,417
Cumulative no. of hauls			90,715	5,502	85,213
TOTAL CATCH			245	70	175
Species (group)	CODES	Code No.	TOTAL	West Coast P	East Coast P
Skipjack tuna	SKJ	3601	0	0	0
Yellowfin tuna	YFT	3602			
Big-eye tuna	BET	3603			
Longtail tuna	LOT	3604			
Albacore tuna	ALB	3605			
Eastern little tuna	KAW	3606			
Frigate and bullet tuna	FRZ	3607			
Indo-Pacific swordfish, sailfish and marlin	BIL	3608			
Narrow-barred king mackerel	COM	3609			
King mackerel	GUT	3610			
Streked seerfish	STS	3611	9	3	6
Frigate tuna	FRI	3612			
Bullet tuna	BLT	3613			
Southern bluefin tuna	SBF	3614			
Indo-Pacific bonito	BIP	3615			
Tunas and bonito NEI	TUN	3616			
Wahoo	WAH	3617			
Seerfish NEI	KGX	3618			
Swordfish	SWO	3619			
Indo-Pacific sailfish	SFA	3620			
Black marlin	BLM	3621	236	67	169
Indo-Pacific blue marlin	BLZ	3622			
Striped marlin	MLS	3623			
Other NEI	OTH	3624			

1 ANNUAL LANDING BY SPECIES - 1998

1-2 Catch and Fishing Effort by Type of Fishing Gear and Size Of Management

1-2-3 Drift Gill Net

-1 Malaysia

Size Of Boat :Unclassified

Unit of fishing effort	Sub-area		Total	West Coast	East Coast
Cumulative no. of fishing units					
Cumulative no. of trips					
Cumulative no. of days					
Cumulative no. of hauls			3,684	2,816	868
TOTAL CATCH			TOTAL	West Coast P	East Coast P
Species (group)	CODES	Code No.			
Skipjack tuna	SKJ	3601			
Yellowfin tuna	YFT	3602			
Big-eye tuna	BET	3603			
Longtail tuna	LOT	3604	63	0	63
Albacore tuna	ALB	3605			
Eastern little tuna	KAW	3606	275	0	275
Frigate and bullet tuna	FRZ	3607			
Indo-Pacific swordfish, sailfish and marlin	BIL	3608	0	0	0
Narrow-barred king mackerel	COM	3609			
King mackerel	GUT	3610			
Straked seerfish	STS	3611			
Frigate tuna	FRI	3612	1	0	1
Bullet tuna	BLT	3613			
Southern bluefin tuna	SBF	3614			
Indo-Pacific bonito	BIP	3615			
Tunas and bonito NEI	TUN	3616			
Wahoo	WAH	3617			
Seerfish NEI	KGX	3618	3,345	2,816	529
Swordfish	SWO	3619			
Indo-Pacific sailfish	SFA	3620			
Black marlin	BLM	3621			
Indo-Pacific blue marlin	BLZ	3622			
Striped marlin	MLS	3623			
Other NEI	OTH	3624			

1 ANNUAL LANDING BY SPECIES - 1998

1-2 Catch and Fishing Effort by Type of Fishing Gear and Size Of Management

1-2-4 Hook and Line

-1 Malaysia

Size Of Boat :Unclassified

Unit of fishing effort	Sub-area		Total	West Coast	East Coast
Cumulative no. of fishing units					
Cumulative no. of trips					
Cumulative no. of days					
Cumulative no. of hauls			8,189	37	8,152
TOTAL CATCH			Total	West Coast P	East Coast P
Species (group)	CODES	Code No.			
Skipjack tuna	SKJ	3601			
Yellowfin tuna	YFT	3602			
Big-eye tuna	BET	3603			
Longtail tuna	LOT	3604	1,235	0	1,235
Albacore tuna	ALB	3605			
Eastern little tuna	KAW	3606	5,391	0	5,391
Frigate and bullet tuna	FRZ	3607			
Indo-Pacific swordfish, sailfish and marlin	BIL	3608	15	0	15
Narrow-barred king mackerel	COM	3609			
King mackerel	GUT	3610			
Striped seerfish	STS	3611			
Frigate tuna	FRI	3612	13	0	13
Bullet tuna	BLT	3613			
Southern bluefin tuna	SBF	3614			
Indo-Pacific bonito	BIP	3615			
Tunas and bonito NEI	TUN	3616			
Wahoo	WAH	3617			
Seerfish NEI	KGX	3618	1,535	37	1,498
Swordfish	SWO	3619			
Indo-Pacific sailfish	SFA	3620			
Black marlin	BLM	3621			
Indo-Pacific blue marlin	BLZ	3622			
Striped marlin	MLS	3623			
Other NEI	OTH	3624			

1 ANNUAL LANDING BY SPECIES - 1998

1-2 Catch and Fishing Effort by Type of Fishing Gear and Size of Management

1-2-5 Longline

(1) Japan

Unit of fishing effort		Size of Management		Catch Unit in Tonnes				
				20-50 GRT	50-100 GRT	100-200 GRT	200-500 GRT	
No. of fishing units								
No. of trips								
No. of days								
No. of hauls								
No. of hours								
No. of hooks								
TOTAL CATCH		97		29	41	0	27	
Species (group)	CODES	Code No.	TOTAL	20-50 GRT	50-100 GRT	100-200 GRT	200-500 GRT	
Skipjack tuna	SKJ	3601	0	-	-	-	-	
Yellowfin tuna	YFT	3602	6	2	4	0	0	
Big-eye tuna	BET	3603	48	0	21	0	27	
Longtail tuna	LOT	3604	0	-	-	-	-	
Albacore tuna	ALB	3605	41	26	15	0	0	
Eastern little tuna (kawakawa)	KAW	3606	0	-	-	-	-	
Frigate and bullet tuna	FRZ	3607	0	-	-	-	-	
Indo-Pacific swordfish, sailfish and marlin	BIL	3608	0	-	-	-	-	
Narrow-barred king mackerel	COM	3609	0	-	-	-	-	
King mackerel	GUT	3610	0	-	-	-	-	
Streked seerfish	STS	3611	0	-	-	-	-	
Frigate tuna	FRI	3612	0	-	-	-	-	
Bullet tuna	BLT	3613	0	-	-	-	-	
Southern bluefin tuna	SBF	3614	0	-	-	-	-	
Indo-Pacific bonito	BIP	3615	0	-	-	-	-	
Tunas and bonito NEI	TUN	3616	0	-	-	-	-	
Wahoo	WAH	3617	0	-	-	-	-	
Seerfish NEI	KGX	3618	0	-	-	-	-	
Swordfish	SWO	3619	1	0	1	0	0	
Indo-Pacific sailfish	SFA	3620	0	0	0	0	0	
Black marlin	BLM	3621	0	0	0	0	0	
Indo-Pacific blue marlin	BLZ	3622	1	1	0	0	0	
Striped marlin	MLS	3623	0	0	0	0	0	
Other NEI	OTH	3624	0	0	0	0	0	

1 ANNUAL LANDING BY SPECIES - 1998

1-2 Catch and Fishing Effort by Type of Fishing Gear and Size of Management

1-2-6 Pole and Line

(1) Japan

Catch Unit in Tonnes

Size of Management			Catch Unit in Tonnes	
TOTAL CATCH			50-100 GRT	100-200 GRT
Unit of fishing effort			72	62
No. of fishing units				
No. of trips				
No. of days				
No. of hauls				
No. of hours				
No. of hooks				
Species (group)	CODES	Code No.	TOTAL	
Skipjack tuna	SKJ	3601	127	59
Yellowfin tuna	YFT	3602	7	3
Big-eye tuna	BET	3603	0	0
Longtail tuna	LOT	3604		
Albacore tuna	ALB	3605	0	0
Eastern little tuna	KAW	3606		
Frigate and bullet tuna	FRZ	3607	0	0
Indo-Pacific swordfish, sailfish and marlin	BIL	3608		
Narrow-barred king mackerel	COM	3609		
King mackerel	GUT	3610		
Streked seerfish	STS	3611		
Frigate tuna	FRI	3612		
Bullet tuna	BLT	3613		
Southern bluefin tuna	SBF	3614		
Indo-Pacific bonito	BIP	3615		
Tunas and bonito NEI	TUN	3616		
Wahoo	WAH	3617		
Seerfish NEI	KGX	3618		
Swordfish	SWO	3619	-	-
Indo-Pacific sailfish	SFA	3620	-	-
Black marlin	BLM	3621	-	-
Indo-Pacific blue marlin	BLZ	3622	-	-
Striped marlin	MLS	3623	-	-
Other NEI	OTH	3624	-	-

1. ANNUAL LANDING BY SPECIES

1-3 Nominal Catch by Species

- (1) Indonesia**
- (2) Japan**
- (3) Korea**
- (4) Philippines**
- (5) Singapore**
- (6) Taiwan**
- (7) Thailand**

1 ANNUAL LANDING BY SPECIES - 1998

1-3 Nominal Catch and by Species

(1) Indonesia

Catch unit in Tonnes

Unit of fishing effort		Type of Gear		Total	Hook and Line	Gill net	Ring Net	Purse Seine	Trawl Net
No. of units									
No. of trips									
No. of days									
No. of hauls									
No. of hours									
TOTAL CATCH				338,300					
Species (group)		CODES	Code No.	Total	Hook and Line	Gill net	Ring Net	Purse Seine	Trawl Net
Skipjack tuna		SKJ	3601	167,700					
Yellowfin tuna		YFT	3602	105,000					
Big-eye tuna		BET	3603						
Longtail tuna		LOT	3604						
Albacore		ALB	3605						
Eastern little tuna		KAW	3606						
Frigate and bullet tuna		FRZ	3607						
Indo-Pacific swordfish, sailfish and marlin		BIL	3608						
Narrow-barred king mackerel		COM	3609	58,800					
King mackerel		GUT	3610	6,800					
Striked seerfish		STS	3611						
Frigate tuna		FRI	3612						
Bullet tuna		BLT	3613						
Southern bluefin tuna		SBF	3614						
Indo-Pacific bonito		BIP	3615						
Tunas and bonito NEI		TUN	3616						
Wahoo		WAH	3617						
Seerfish NEI		KGX	3618						
Swordfish		SWO	3619						
Indo-Pacific sailfish		SFA	3620						
Black marlin		BLM	3621						
Indo-Pacific blue marlin		BLZ	3622						
Striped marlin		MLS	3623						
Other NEI		OTH	3624						

*Data extracted from The FAO Yearbook Fishery Statistics

1 ANNUAL LANDING BY SPECIES - 1998

1-3 Nominal Catch by Species

(2) Japan

Catch Unit in Tonnes

CATCH ONT IN TOWNES									
Unit of fishing effort	Type of Gear			Total	Hook and Line	Gill Net	Ring Net	Purse Seine	Trawl Net
No. of units									
No. of trips									
No. of days									
No. of hauls									
No. of hours									
TOTAL CATCH									
	Species (group)	CODES	Code No.	TOTAL	Longline	Pole & Line	Ring Net	Purse Seine	Trawl Net
	Skipjack tuna	SKJ	3601	117		117			
	Yellowfin tuna	YFT	3602	13	6	7			
	Big-eye tuna	BET	3603	48	48				
	Longtail tuna	LOT	3604	0					
	Albacore	ALB	3605	41	41				
	Eastern little tuna	KAW	3606	0					
	Frigate and bullet tuna	FRZ	3607	0					
	Indo-Pacific swordfish, sailfish and marlin	BIL	3608	0					
	Narrow-barred king mackerel	COM	3609	0					
	King Mackerel	GUT	3610	0					
	Streked seerfish	STS	3611	0					
	Frigate tuna	FRI	3612	0					
	Bullet tuna	BLT	3613	0					
	Southern bluefin tuna	SBF	3614	0					
	Indo-Pacific bonito	BIP	3615	0					
	Tunas and bonito NEI	TUN	3616	0					
	Wahoo	WAH	3617	0					
	Seerfish NEI	KGX	3618	0					
	Swordfish	SWO	3619	1	1				
	Indo-Pacific sailfish	SFA	3620	0	0				
	Black marlin	BLM	3621	0					
	Indo-Pacific blue marlin	BLZ	3622	1	1				
	Striped marlin	MLS	3623	0	0				
	Other NEI (TUNA)	OTH	3624	0					

1 ANNUAL LANDING BY SPECIES - 1998

1-3 Nominal Catch by Species

(3) Korea

Catch unit in Tonnes

Unit of fishing effort		Type of Gear		Total	Hook and Line	Gill net	Ring Net	Purse Seine	Trawl Net
No. of units									
No. of trips									
No. of days									
No. of hauls									
No. of hours									
TOTAL CATCH				201,105					
Species (group)		CODES	Code No.	Total	Hook and Line	Gill net	Ring Net	Purse Seine	Trawl Net
Skipjack tuna		SKJ	3601	140,685					
Yellowfin tuna		YFT	3602	56,876					
Big-eye tuna		BET	3603	2,313					
Longtail tuna		LOT	3604						
Albacore		ALB	3605	690					
Eastern little tuna		KAW	3606						
Frigate and bullet tuna		FRZ	3607						
Indo-Pacific swordfish, sailfish and marlin		BIL	3608	361					
Narrow-barred king mackerel		COM	3609						
King mackerel		GUT	3610						
Streked seerfish		STS	3611						
Frigate tuna		FRI	3612						
Bullet tuna		BLT	3613						
Southern bluefin tuna		SBF	3614						
Indo-Pacific bonito		BIP	3615						
Tunas and bonito NEI		TUN	3616						
Wahoo		WAH	3617						
Seerfish NEI		KGX	3618	38					
Swordfish		SWO	3619	19					
Indo-Pacific sailfish		SFA	3620						
Black marlin		BLM	3621						
Indo-Pacific blue marlin		BLZ	3622	112					
Striped marlin		MLS	3623	11					
Other NEI		OTH	3624						

*Data extracted from The FAO Yearbook Fishery Statistics

1 ANNUAL LANDING BY SPECIES - 1998
1-3 Nominal Catch by Species
(4) Philippines

Catch unit in Tonnes

Unit of fishing effort		Type of Gear		Total	Hook and Line	Gill net	Ring Net	Purse Seine	Trawl Net
No. of units									
No. of trips									
No. of days									
No. of hauls									
No. of hours									
TOTAL CATCH				349,905					
Species (group)		CODES	Code No.	Total	Hook and Line	Gill net	Ring Net	Purse Seine	Trawl Net
Skipjack tuna		SKJ	3601	116,673					
Yellowfin tuna		YFT	3602	79,215					
Big-eye tuna		BET	3603						
Longtail tuna		LOT	3604						
Albacore		ALB	3605						
Eastern little tuna		KAW	3606	24,424					
Frigate and bullet tuna		FRZ	3607	106,433					
Indo-Pacific swordfish, sailfish and marlin		BIL	3608	4,900					
Narrow-barred king mackerel		COM	3609	11,470					
King mackerel		GUT	3610						
Streked seerfish		STS	3611						
Frigate tuna		FRI	3612						
Bullet tuna		BLT	3613						
Southern bluefin tuna		SBF	3614						
Indo-Pacific bonito		BIP	3615						
Tunas and bonito NEI		TUN	3616						
Wahoo		WAH	3617						
Seerfish NEI		KGX	3618						
Swordfish		SWO	3619	5,670					
Indo-Pacific sailfish		SFA	3620						
Black marlin		BLM	3621						
Indo-Pacific blue marlin		BLZ	3622	1,120					
Striped marlin		MLS	3623						
Other NEI		OTH	3624						

*Data extracted from The FAO Yearbook Fishery Statistics

1 ANNUAL LANDING BY SPECIES - 1998

1-3 Nominal Catch by Species

(5) Singapore

Catch unit in Tonnes

Unit of fishing effort		Type of Gear		Total	Hook and Line	Gill net	Ring Net	Purse Seine	Trawl Net
No. of units									
No. of trips									
No. of days									
No. of hauls									
No. of hours									
TOTAL CATCH				82					
Species (group)		CODES	Code No.	Total	Hook and Line	Gill net	Ring Net	Purse Seine	Trawl Net
Skipjack tuna		SKJ	3601	12					
Yellowfin tuna		YFT	3602						
Big-eye tuna		BET	3603						
Longtail tuna		LOT	3604						
Albacore		ALB	3605						
Eastern little tuna		KAW	3606						
Frigate and bullet tuna		FRZ	3607						
Indo-Pacific swordfish, sailfish and marlin		BIL	3608						
Narrow-barred king mackerel		COM	3609						
King mackerel		GUT	3610						
Streked seerfish		STS	3611						
Frigate tuna		FRI	3612						
Bullet tuna		BLT	3613	70					
Southern bluefin tuna		SBF	3614						
Indo-Pacific bonito		BIP	3615						
Tunas and bonito NEI		TUN	3616						
Wahoo		WAH	3617						
Seerfish NEI		KGX	3618						
Swordfish		SWO	3619						
Indo-Pacific sailfish		SFA	3620						
Black marlin		BLM	3621						
Indo-Pacific blue marlin		BLZ	3622						
Striped marlin		MLS	3623						
Other NEI		OTH	3624						

*Data extracted from The FAO Yearbook Fishery Statistics

1 ANNUAL LANDING BY SPECIES - 1998

1-3 Nominal Catch by Species

(6) Taiwan

Catch unit in Tonnes

Unit of fishing effort		Type of Gear		Total	Hook and Line	Gill net	Ring Net	Purse Seine	Trawl Net
No. of units									
No. of trips									
No. of days									
No. of hauls									
No. of hours									
TOTAL CATCH				318,612					
Species (group)		CODES	Code No.	Total	Hook and Line	Gill net	Ring Net	Purse Seine	Trawl Net
Skipjack tuna		SKJ	3601	196,181					
Yellowfin tuna		YFT	3602	82,004					
Big-eye tuna		BET	3603	12,973					
Longtail tuna		LOT	3604						
Albacore		ALB	3605	5,095					
Eastern little tuna		KAW	3606	2,307					
Frigate and bullet tuna		FRZ	3607						
Indo-Pacific swordfish, sailfish and marlin		BIL	3607	3,027					
Narrow-barred king mackerel		COM	3609						
King mackerel		GUT	3610						
Straked seerfish		STS	3611						
Frigate tuna		FRI	3612						
Bullet tuna		BLT	3613						
Southern bluefin tuna		SBF	3614						
Indo-Pacific bonito		BIP	3615						
Tunas and bonito NEI		TUN	3616						
Wahoo		WAH	3617						
Seerfish NEI		KGX	3618	6,163					
Swordfish		SWO	3619	1,741					
Indo-Pacific sailfish		SFA	3620	6,385					
Black marlin		BLM	3621	1,332					
Indo-Pacific blue marlin		BLZ	3622						
Striped marlin		MLS	3623	1,404					
Other NEI		OTH	3624						

*Data extracted from The FAO Yearbook Fishery Statistics

1 ANNUAL LANDING BY SPECIES - 1998

1-3 Nominal Catch by Species

(7) Thailand

Catch unit in Tonnes

Unit of fishing effort		Type of Gear		Total	Hook and Line	Gill net	Ring Net	Purse Seine	Trawl Net
No. of units									
No. of trips									
No. of days									
No. of hauls									
No. of hours									
TOTAL CATCH				87,796					
Species (group)		CODES	Code No.		Hook and Line	Gill net	Ring Net	Purse Seine	Trawl Net
Skipjack tuna		SKJ	3601						
Yellowfin tuna		YFT	3602						
Big-eye tuna		BET	3603						
Longtail tuna		LOT	3604						
Albacore		ALB	3605		90	4325		30390	
Eastern little tuna **		KAW	3606		56	5155		38816	
Frigate and bullet tuna		FRZ	3607						
Indo-Pacific swordfish, sailfish and marlin		BIL	3608						
Narrow-banded king mackerel		COM	3609						
King mackerel		GUT	3610						
Striped seerfish		STS	3611						
Frigate tuna		FRI	3612						
Bullet tuna		BLT	3613						
Southern bluefin tuna		SBF	3614						
Indo-Pacific bonito		BIP	3615						
Tunas and bonito NEI		TUN	3616						
Wahoo		WAH	3617						
Seerfish NEI		KGX	3618						
Swordfish		SWO	3619	8,964					
Indo-Pacific sailfish		SFA	3620						
Black marlin		BLM	3621						
Indo-Pacific blue marlin		BLZ	3622						
Striped marlin		MLS	3623						
Other NEI		OTH	3624						

** including frigate tuna

2. MONTHLY LANDING BY SPECIES 1998

2-1 Catch and Fishing Effort by Month

(1) Brunei

(2) Malaysia:

Peninsular Malaysia

West Coast of Peninsular

East Coast of Peninsular

Sabah

Sarawak

Labuan

2 MONTHLY LANDING BY SPECIES - 1998

2-1 Catch and Fishing Effort by Month

(1) Brunei

Catch unit in KG

Unit of fishing effort		Month												OCT	NOV	DEC
No. of units	No. of trips	No. of days	No. of hauls	TOTAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
TOTAL CATCH				77,449	3,994	4,394	8,766	3,739	11,030	11,620	7,007	3,056	4,700	7,703	7,883	3,557
Species (group)		CODES		Code No												
Skipjack tuna		SKJ		3601	120	132	263	112	331	349	210	92	141	231	236	107
Yellowfin tuna		YFT		3602	40	44	88	37	110	116	70	31	47	77	79	36
Big-eye tuna		BET		3603												
Longtail tuna		LOT		3604	999	1,099	2,192	935	2,758	2,905	1,752	764	1,175	1,926	1,971	889
Albacore		ALB		3605												
Eastern little tuna		KAW		3606	2,237	2,461	4,909	2,094	6,177	6,507	3,924	1,711	2,632	4,314	4,414	1,992
Frigate and bullet tuna		FRZ		3607												
Indo-Pacific swordfish, sailfish and marlin		BIL		3608												
Narrow-banded king mackerel		COM		3609												
King mackerel		GUT		3610												
Straked seerfish		STS		3611												
Frigate tuna		FRI		3612	599	659	1,315	561	1,655	1,743	1,051	458	705	1,155	1,182	534
Bullet tuna		BLT		3613												
Southern bluefin tuna		SBF		3614												
Indo-Pacific bonito		BIP		3615												
Tunas and bonito NEI		TUN		3616												
Wahoo		WAH		3617												
Seerfish NEI		KGX		3618												
Swordfish		SWO		3619												
Indo-Pacific sailfish		SFA		3620												
Black marlin		BLM		3621												
Indo-Pacific blue marlin		BLZ		3622												
Striped marlin		MLS		3623												
Other NEI (TUNA)		OTH		3624												

2 MONTHLY LANDING BY SPECIES - 1998

2-1 Catch and Fishing Effort by Month (Unclassified)
(2) Malaysia

Catch Unit in Tonnes

Unit of fishing effort		Month												
No. of units		TOTAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
No. of trips														
No. of days														
No. of hauls														
TOTAL CATCH		69,119	4,453	5,381	5,643	6,122	5,971	5,967	8,048	6,063	6,469	6,037	5,560	3,405
Species (group)		CODES	Code No											
Skipjack tuna		SKJ	3601											
Yellowfin tuna		YFT	3602											
Big-eye tuna		BET	3603											
Longtail tuna		LOT	3604											
Albacore		ALB	3605											
Eastern little tuna		KAW	3606											
Frigate and bullet tuna		FRZ	3607											
Indo-Pacific swordfish, sailfish and marlin		BIL	3608											
Narrow-barred king mackerel		COM	3609											
King mackerel		GUT	3610											
Straked seerfish		STS	3611											
Frigate tuna		FRI	3612											
Bullet tuna		BLT	3613											
Southern bluefin tuna		SBF	3614											
Indo-Pacific bonito		BIP	3615											
Tunas and bonito NEI		TUN	3616											
Wahoo		WAH	3617											
Seerfish NEI		KGX	3618											
Swordfish		SWO	3619											
Indo-Pacific sailfish		SFA	3620											
Black marlin		BLM	3621											
Indo-Pacific blue marlin		BLZ	3622											
Striped marlin		MLS	3623											
Other NEI (TUNA)		OTH	3624											
				1,253	1,198	1,392	1,324	1,289	1,450	1,299	1,421	1,473	1,559	1,345
				16,278	1,275									
				105										
				324										
				42,644										
				9,768										
				583										
				755										
				823										
				873										
				862										
				868										
				1,225										
				885										
				934										
				843										
				739										
				378										
				1,650										
				3,224										
				30										
				9										
				10										
				13										
				8										
				20										
				39										
				7										
				10										
				9										
				10										
				6										
				8										
				9										
				20										
				71										
				3,294										
				3,593										
				3,808										
				3,768										
				3,791										
				5,348										
				3,865										
				4,075										
				3,682										
				30										
				8										
				3										

2 MONTHLY LANDING BY SPECIES - 1998

2-1 Catch and Fishing Effort by Month (Unclassified)

(2) Malaysia

Sub-area: Peninsular Malaysia

Catch Unit in Tonnes

Unit of fishing effort		Month												
No. of units		TOTAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
No. of trips														
No. of days														
No. of hauls														
TOTAL CATCH		41,904	2,446	2,528	2,778	3,107	3,358	3,701	5,935	4,384	4,137	3,824	3,799	1,907
Species (group)		CODES	Code	No										
Skipjack tuna		SKJ	3601											
Yellowfin tuna		YFT	3602											
Big-eye tuna		BET	3603											
Longtail tuna		LOT	3604											
Albacore		ALB	3605											
Eastern little tuna		KAW	3606											
Frigate and bullet tuna		FRZ	3607											
Indo-Pacific swordfish, sailfish and marlin		BIL	3608			12								
Narrow-barred king mackerel		COM	3609											
King mackerel		GUT	3610											
Streked seerfish		STS	3611											
Frigate tuna		FRI	3612			5	5	6	11	7	7	6	6	3
Bullet tuna		BLT	3613											
Southern bluefin tuna		SBF	3614											
Indo-Pacific bonito		BIP	3615											
Tunas and bonito NEI		TUN	3616											
Wahoo		WAH	3617											
Seerfish NEI		KGX	3618			703	671	678	766	756	723	845		662
Swordfish		SWO	3619											
Indo-Pacific sailfish		SFA	3620											
Black marlin		BLM	3621											
Indo-Pacific blue marlin		BLZ	3622											
Striped marlin		MLS	3623											
Other NEI (TUNA)		OTH	3624											

2 MONTHLY LANDING BY SPECIES - 1998

2-1 Catch and Fishing Effort by Month (Unclassified)
(2) Malaysia

Sub-area: West Coast of Peninsular Malaysia

Catch Unit in Tonnes

Unit of fishing effort		Month												Catch Unit in Tonnes	
No. of units		TOTAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
No. of trips															
No. of days															
No. of hauls															
TOTAL CATCH		14,780	1,262	1,030	1,416	1,183	1,300	1,217	1,537	1,555	1,047	783	1,494	956	
Species (group)		CODES	Code No												
Skipjack tuna		SKJ	3601												
Yellowfin tuna		YFT	3602												
Big-eye tuna		BET	3603												
Longtail tuna		LOT	3604												
Albacore		ALB	3605												
Eastern little tuna		KAW	3606												
Frigate and bullet tuna		FRZ	3607												
Indo-Pacific swordfish, sailfish and marlin		BIL	3607												
Narrow-barred king mackerel		COM	3609												
King mackerel		GUT	3610												
Streked seerfish		STS	3611												
Frigate tuna		FRI	3612	1	1	2	5	2	3	2	2	1	6	1	
Bullet tuna		BLT	3613												
Southern bluefin tuna		SBF	3614												
Indo-Pacific bonito		BIP	3615												
Tunas and bonito NEI		TUN	3616												
Wahoo		WAH	3617												
Seerfish NEI		KGX	3618												
Swordfish		SWO	3619												
Indo-Pacific sailfish		SFA	3620												
Black marlin		BLM	3621												
Indo-Pacific blue marlin		BLZ	3622												
Striped marlin		MLS	3623												
Other NEI (TUNA)		OTH	3624												
				5,389	654	444	409	511	478	426	390	396	405	333	447
				27	1	1	2	5	2	3	2	2	1	6	1
				1,740	113	109	187	125	150	147	213	216	119	84	95
				7,624	494	476	818	546	667	642	931	941	521	365	413

2 MONTHLY LANDING BY SPECIES - 1998

2-1 Catch and Fishing Effort by Month (Unclassified)

(2) Malaysia

Sub-area: East Coast of Peninsular Malaysia

Catch Unit in Tonnes

Unit of fishing effort		Month												
No. of units		TOTAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
No. of trips														
No. of days														
No. of hauls														
TOTAL CATCH		27,124	1,184	1,498	1,362	1,924	2,058	2,484	4,398	2,829	3,090	3,041	2,305	951
Species (group)	CODES	No												
Skipjack tuna	SKJ	3601												
Yellowfin tuna	YFT	3602												
Big-eye tuna	BET	3603												
Longtail tuna	LOT	3604	191	243	223	320	347	415	748	459	516	493	364	137
Albacore	ALB	3605												
Eastern little tuna	KAW	3606	833	1,063	972	1,397	1,514	1,812	3,266	2,005	2,251	2,153	1,588	590
Frigate and bullet tuna	FRZ	3607												
Indo-Pacific swordfish, sailfish and marlin	BIL	3608	3	1		12								
Narrow-barred king mackerel	COM	3609												
King mackerel	GUT	3610												
Streked seerfish	STS	3611												
Frigate tuna	FRI	3612	2	3	2	3	4	5	8	5	5	5	4	9
Bullet tuna	BLT	3613												
Southern bluefin tuna	SBF	3614												
Indo-Pacific bonito	BIP	3615												
Tunas and bonito NEI	TUN	3616												
Wahoo	WAH	3617												
Seerfish NEI	KGX	3618	155	188	165	192	193	252	376	360	318	390	349	215
Swordfish	SWO	3619												
Indo-Pacific sailfish	SFA	3620												
Black marlin	BLM	3621												
Indo-Pacific blue marlin	BLZ	3622												
Striped marlin	MLS	3623												
Other NEI (TUNA)	OTH	3624												

2 MONTHLY LANDING BY SPECIES - 1998

2-1 Catch and Fishing Effort by Month (Unclassified)

(2) Malaysia

Sub-area: Sarawak

Catch Unit in Tonnes

Unit of fishing effort		Month												
No. of units		TOTAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
No. of trips														
No. of days														
No. of hauls														
TOTAL CATCH		4,298	177	196	289	344	332	561	527	373	426	355	359	359
Species (group)	CODES	No	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Skipjack tuna	SKJ	3601												
Yellowfin tuna	YFT	3602												
Big-eye tuna	BET	3603												
Longtail tuna	LOT	3604	15	15	21	24	21	59	39	37	40	29	36	34
Albacore	ALB	3605												
Eastern little tuna	KAW	3606	69	69	93	107	91	260	173	162	176	126	156	149
Frigate and bullet tuna	FRZ	3607												
Indo-Pacific swordfish, sailfish and marlin	BIL	3608												
Narrow-barred king mackerel	COM	3609												
King mackerel	GUT	3610												
Straked seerfish	STS	3611												
Frigate tuna	FRI	3612	1	1	1	1	1	1	2	1	1	1	1	1
Bullet tuna	BLT	3613												
Southern bluefin tuna	SBF	3614												
Indo-Pacific bonito	BIP	3615												
Tunas and bonito NEI	TUN	3616												
Wahoo	WAH	3617												
Seerfish NEI	KGX	3618	92	111	174	212	219	241	313	173	209	199	166	175
Swordfish	SWO	3619												
Indo-Pacific sailfish	SFA	3620												
Black marlin	BLM	3621												
Indo-Pacific blue marlin	BLZ	3622												
Striped marlin	MLS	3623												
Other NEI (TUNA)	OTH	3624												

2 MONTHLY LANDING BY SPECIES - 1998

2-1 Catch and Fishing Effort by Month (Unclassified)

(2) Malaysia

Sub-area: Labuan

Catch Unit in Tonnes

Other NEI (TUNA)

APPENDIX

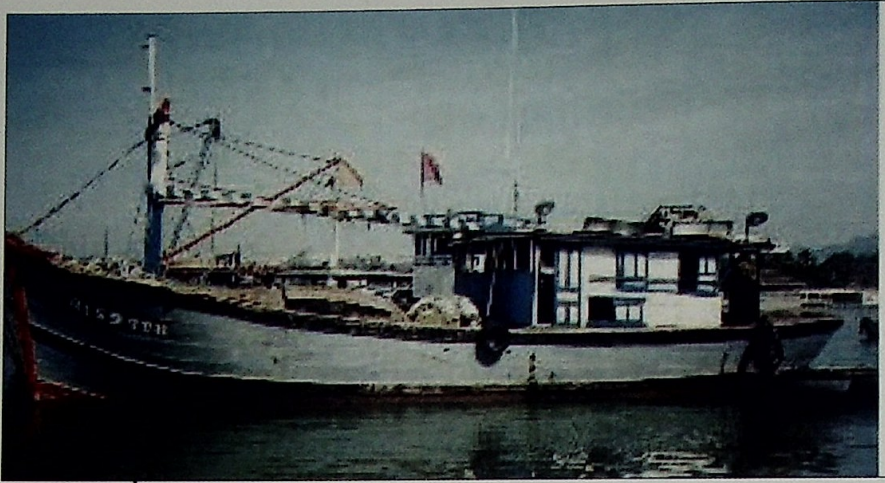
**TYPICAL TUNA FISHING VESSELS
IN THE SOUTH CHINA SEA AREA**



Commercial tuna purse seine vessel in Malaysia and Thailand.



Traditional small purse seine vessel in Semporna, Sabah.



Commercial tuna purse seine vessel in Vietnam.



Typical gill net fishing vessel in Vietnam.



Traditional longline fishing vessels in Vietnam.

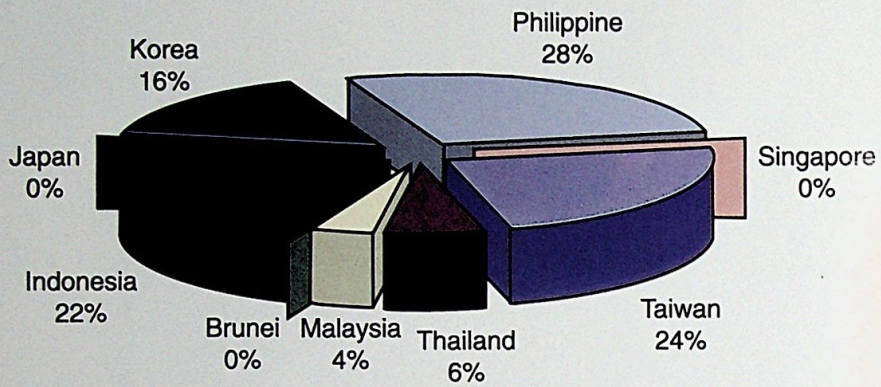


Tuna purse seine vessel in Thailand.

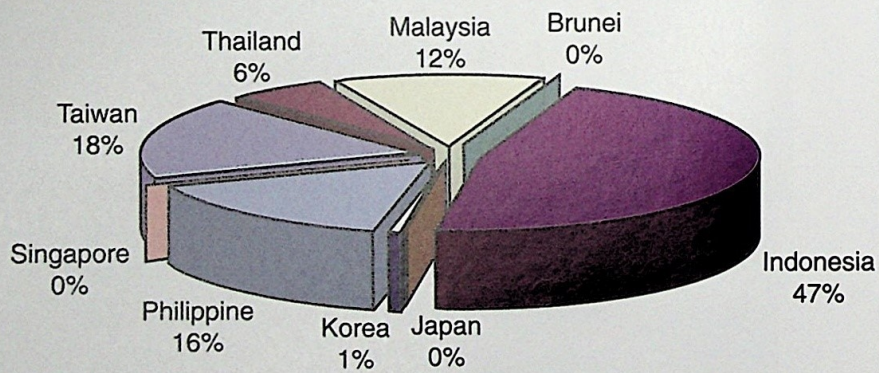


Spanish mackerel vessel in Thailand

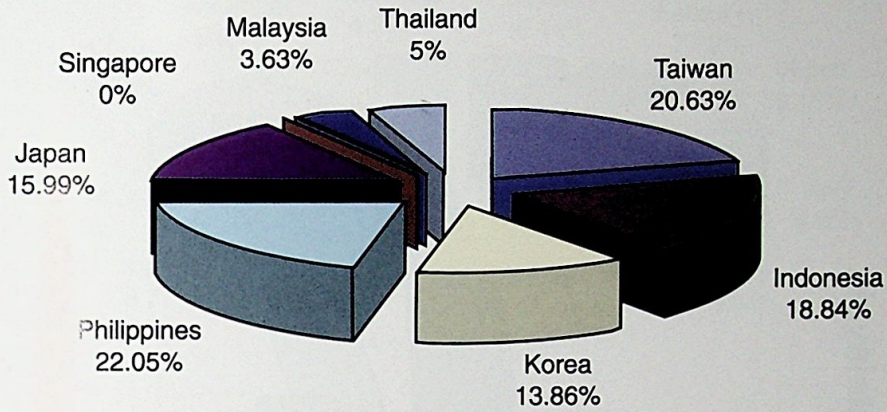
Tuna Species Landings in Southeast Asian Region 1998



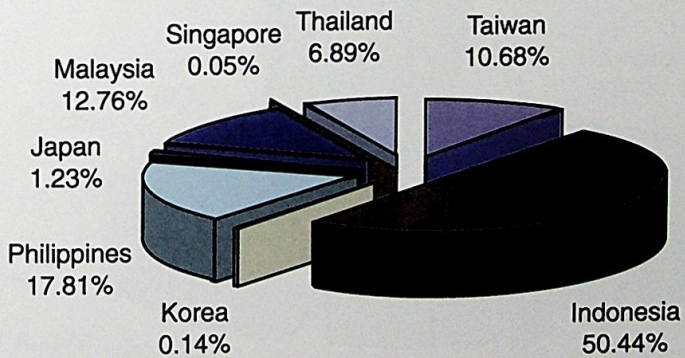
Tuna Like Species Landings in Southeast Asian Region 1998



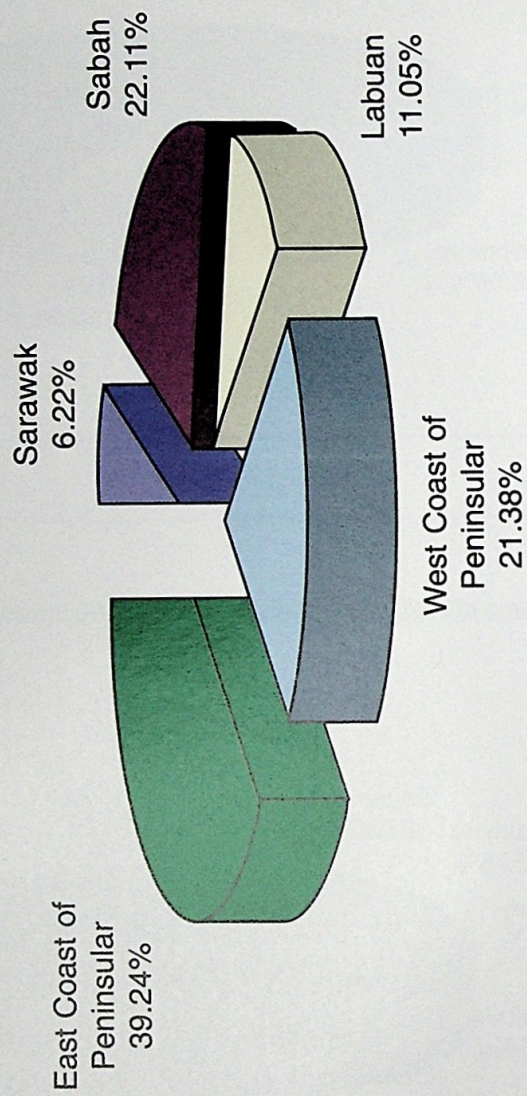
Tuna Landings in Southeast Asian Region 1998



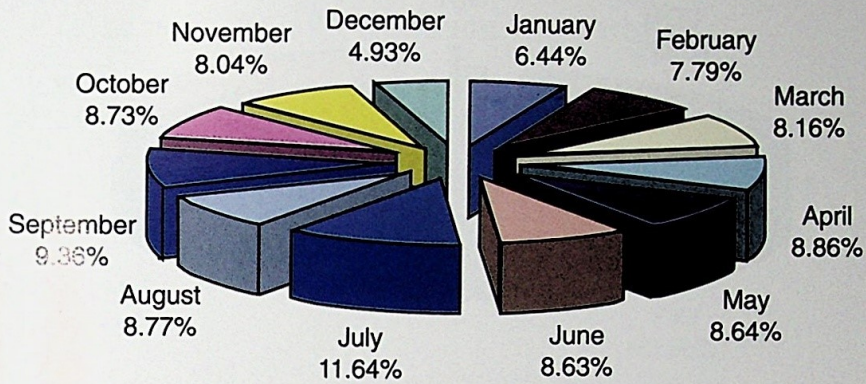
Tuna Like Species Landings in Southeast Asian Region 1998



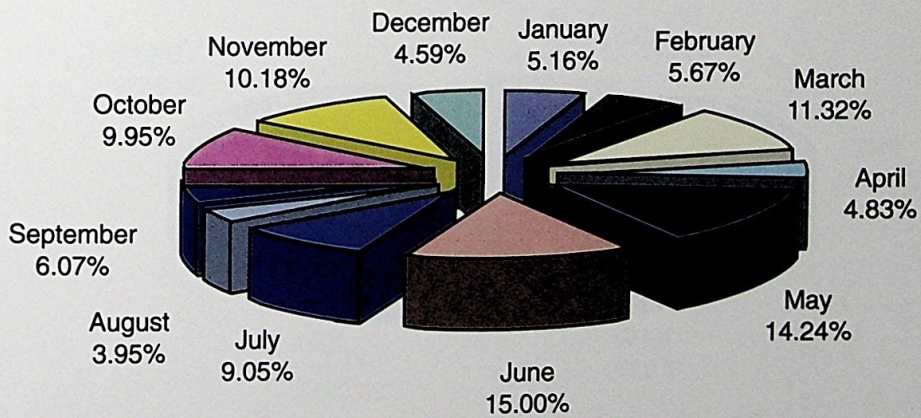
Tuna Landings by Area in Malaysia 1998



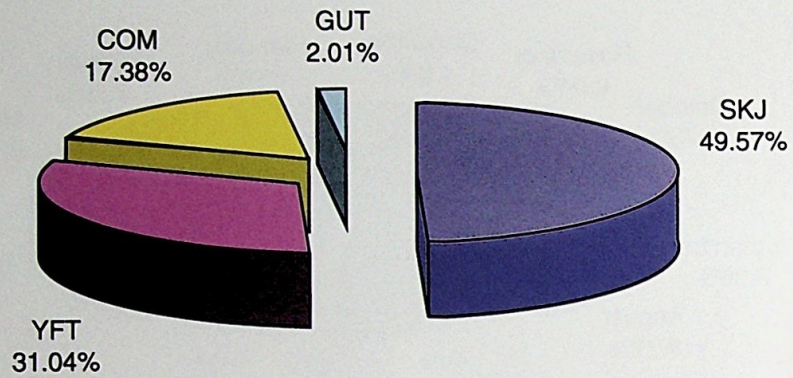
Monthly Landings of Tuna in Malaysia 1998



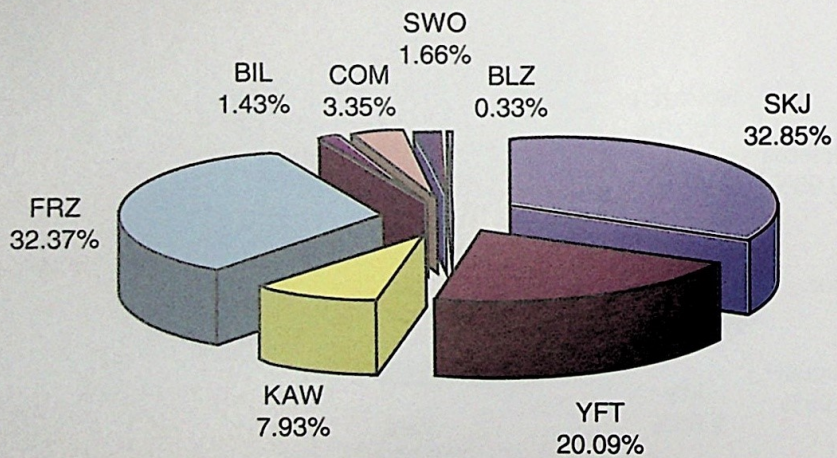
Monthly Landings of Tuna in Brunei 1998



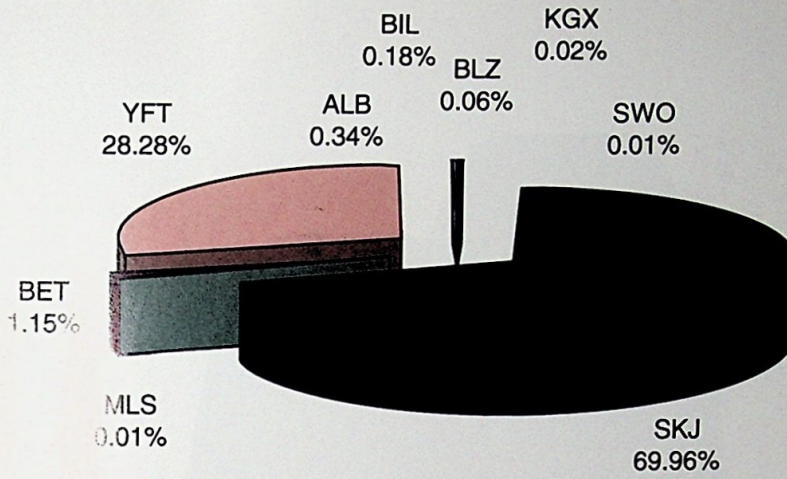
Tuna Landing by Species in Indonesia 1998



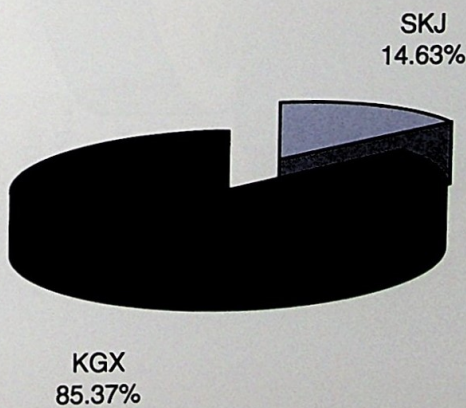
Tuna Landing by Species in Philippines 1998



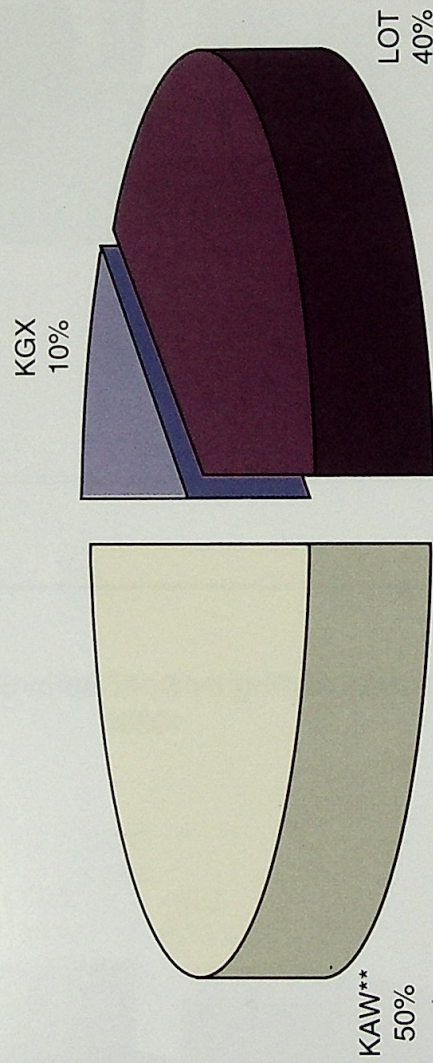
Tuna Landing by Species in Korea 1998



Tuna Landing by Species in Singapore 1998

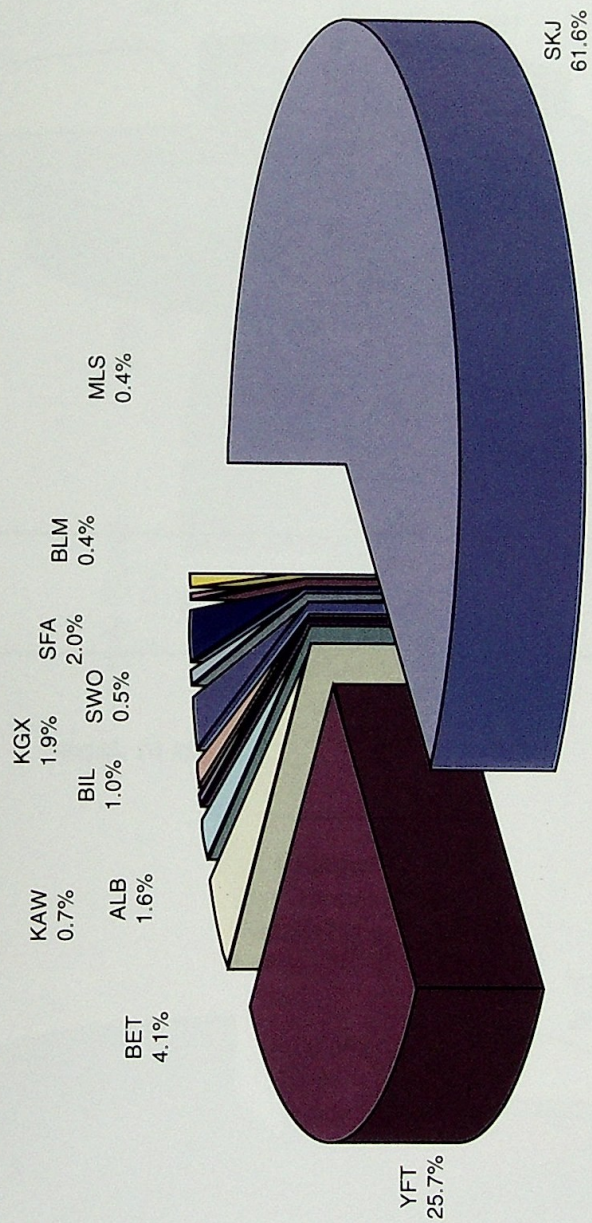


Tuna Landings by Species in Thailand 1998

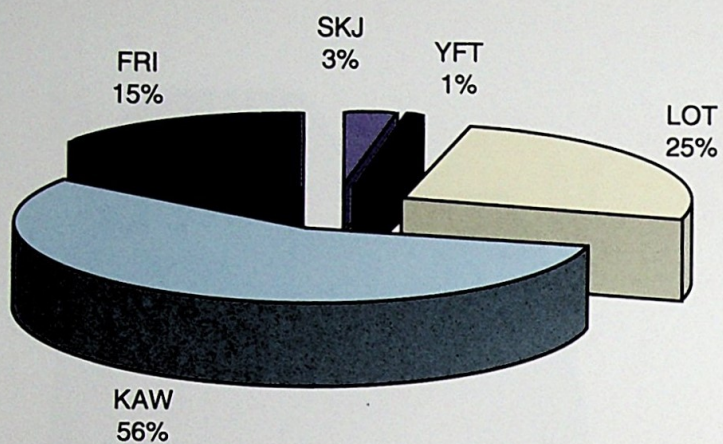


**Including Frigate Tuna

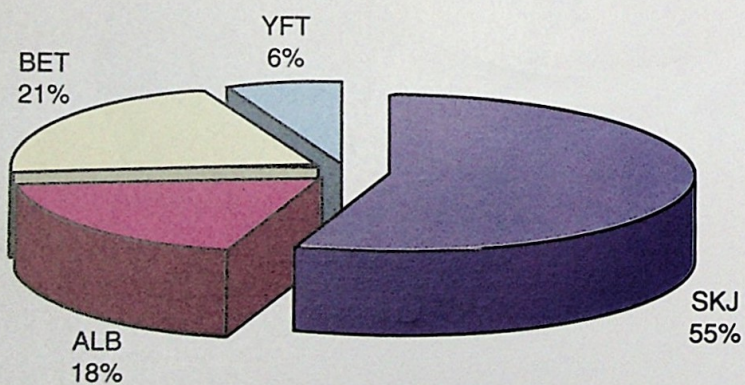
Tuna Landings by Species in Taiwan 1998



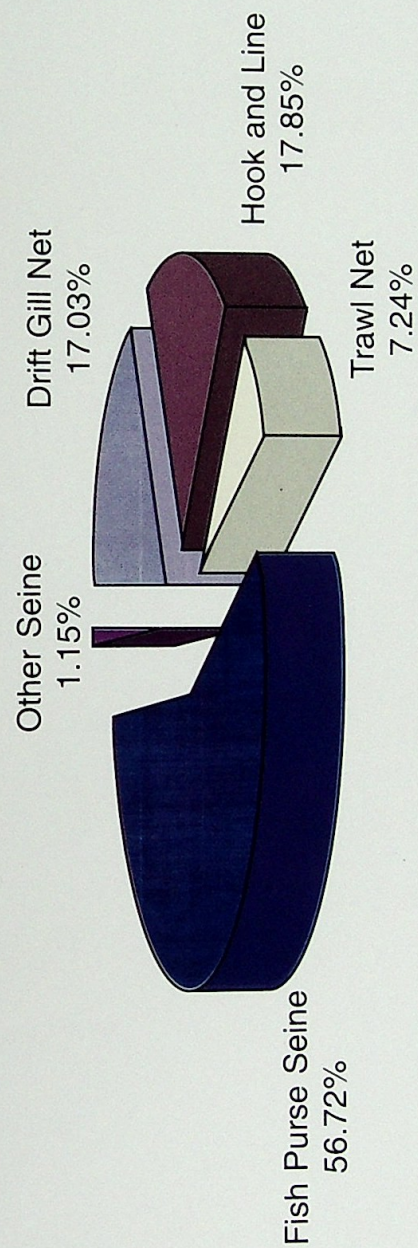
**Tuna Landing by Species in Brunei Darussalam
1998**



**Tuna Landing by Species in Japan
1998**



Tuna Landing by Type of Fishing Gear in Malaysia 1998



SEAPDECA